Specification

General		TM-800	
Frequency Range		136~174MHz 350~400MHz, 400~470MHz, 450~512MHz	
Channel Capacity		256(max)	
Zone Capacity		256(max)	
Channel Spacing	Wide	25/30KHz	
	Narrow	12.5/15KHz	
Operating Voltage		13.6V DC ±15%	
Current Drain	Standby	0.5A	0.5A
	Receive	<2.0A	<2.0A
	Transmit	<8A(25W)/<12A(50W)	<8A(25W)/<12A(45W)
Frequency Stability		±2ppm	
Operating Temperature		-30℃~+60 ℃	
Antenna Impedance		50Ω	
Dimensions (L×W×H)		164mm×180mm×48mm	
Weight		1.9kg	

Transmitter	TM-800			
RF Power Output	25W/50W	25W/45W		
Modulation	F3E			
Spurious and Harmonics	25W	50W	25W	45W
	-36dBm<1GHz	-33dBm<1GHz	-36dBm<1GHz	-28dBm<1GHz
	-30dBm>1GHz	-30dBm>1GHz	-30dBm>1GHz	-30dBm>1GHz
FM Noise(wide/narrow)	48/42dB			
Audio Distortion	≤3%			

Receiver	TM-800	
Sensitivity (wide/narrow)	0.28/0.35μV	
Selectivity (wide/narrow)	75/65dB	
Intermodulation (wide/narrow)	70/65dB	
Spurious Response Rejection	85dB	80dB
S/N (wide/narrow)	48/42dB	
Internal Audio Power Output	5W (less than 10% distortion)	
	3W (less than 3% distortion)	
External Audio Power Output	13W (less than 5% distortion)	
	12W (less than 3% distortion)	

- Above specification are tested according to TIA/EIA -603
  Above specifications are subject to change without notice due to technology enhancement.

Applicable MIL-STD 810C/D/E/F

Standard	MIL 810C Methods / Procedures	MIL 810D Methods / Procedures	MIL 810E Methods / Procedures	MIL 810F Methods / Procedures
Low Pressure	500.1/ I	500.2/ I,II	500.3/ I,II	500.4/ I
High Temperature	501.1/ I,II	501.2/ I,II	501.3/ I	501.4/ I, II
Low Temperature	502.1/ I	502.2/ I,II	502.3/ I,II	502.4/ I, II
Solar Radiation	505.1/ I	505.2/ I	505.3/ I	505.4/ I, II
Rain	506.1/ II	506.2/ II	506.3/ II	506.4/ III
Humidity	507.1/ II	507.2/ II,III	507.3/ II,III	507.4/ I
Salt Fog	509.1/ I	509.2/ I	509.3/ I	509.4/ I
Dust	510.1/ I	510.2/ I	510.3/ I	510.4/ I
Vibration	514.2/ VIII,X	514.3/ I	514.4/ I	514.5/ I
Shock	516.2/ I,II,V	516.3/ I,IV	516.4/ I,IV	516.5/ I

ISO9001:2000 *Certificate* NO:**FM** 61540

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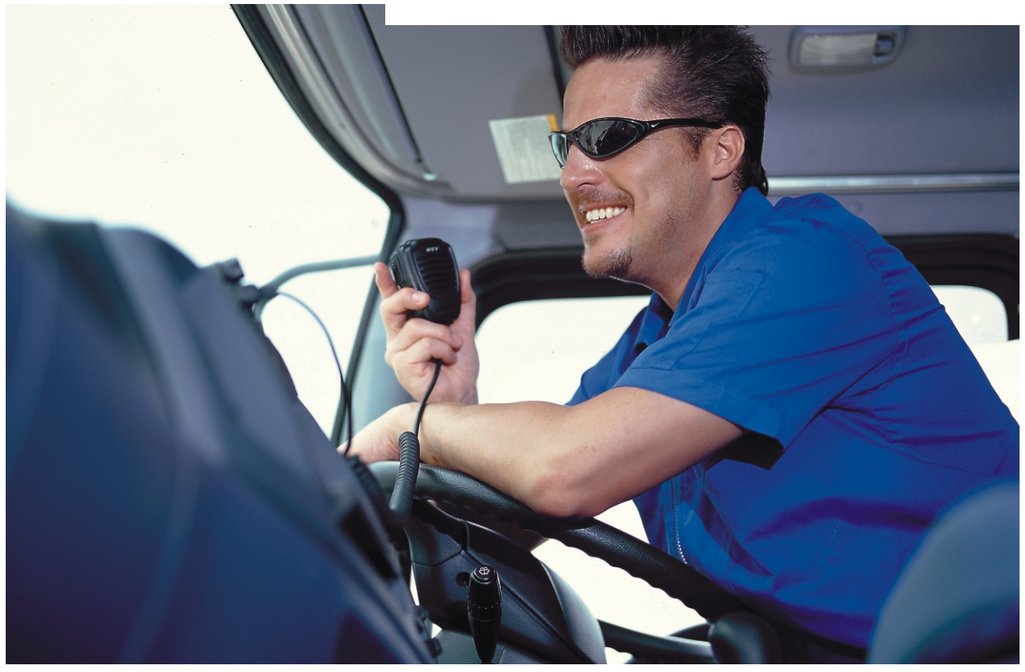


TM-800

- **WIDE-BAND COVERAGE**
- **POWERFUL AUDIO**
- **REMOTE MOUNT CONTROL HEAD**
- **SHORT MESSAGE**
- **BUILT-IN SCRAMBLER**
- **RESERVED EXPANSION PORT & SOFTWARE UPGRADEABLE**

HYT

TM-800

Professional Mobile Radio

The newly launched HYT TM-800 series are packed with cutting-edge technology and HYT innovations, for user-friendly operation and optimum performance.
The rugged, versatile TM-800 series offer you immediate and reliable communications even under harshest and toughest conditions, and highest efficiency and productivity now and future!

Super Functions

WIDE-BAND COVERAGE

The TM-800 wide-band coverage fully meets various customer demands.

POWERFUL AUDIO

5W audio output for robust clarity. A powerful 12W audio is also available with an external speaker, offering robust clarity in harsh, noisy environments.

REMOTE MOUNT CONTROL HEAD

The remote mount control head can be mounted on the dashboard without the radio chassis, ideal when space is constrained.

SHORT MESSAGE

User can edit messages via keypad microphone, and store messages via programming software.
Messages can be sent via control center, or sent between radios directly.

BUILT-IN SCRAMBLER

Provides enhanced security for your important public safety and private security communications.

RESERVED EXPANSION PORT & SOFTWARE UPGRADEABLE

Three expansion ports for second development including voice scrambler, GPS, SmarTrunk™ trunking system, data transmission, and repeater.
Flash memory, software upgradeable, allows new functions add-in to accommodate future updates, without opening the unit.

New Features

HIGH 256-CHANNEL CAPACITY AND DYNAMIC ZONING(max 256 zones)

The feature provides versatile channel organization suited for any company-wide, departmental or divisional requirementsplus room for auxiliary or special-use zones.
Each zone and channel can be programmed with customized name.

VERSATILE SIGNALINGS

CTCSS, CDCSS, DTMF, 2-Tone, 5-Tone, HDC2400™

VOICE COMPANDER ENABLES CLEAR AND CRISP AUDIO

PUBLIC ADDRESS (PA)

The PA feature feeds MIC audio through a powerful external public address amplifier, and outputs through external speaker, offering robust clarity in harsh, noisy environments.

ALPHANUMERIC DOT MATRIX LCD DISPLAY

Provide easy-to-read icons, including channel number/name, zone number/name, frequency, DTMF call numbers, menu setting items, etc.
LCD backlight for nighttime operation.

8 PROGRAMMABLE BACKLIGHT KEYS

STUN/REVIVE

Provides enhanced security to prevent unauthorized use of lost or rental units, by remote inhibition of either transmit or transmit/receive.
The radio returns to operational use when receiving a revive code.

REMOTE CONTROL

The TM-800 series can remote control other electronic equipments via receiving DTMF or 5-Tone signaling.

VERSATILE SCAN

Three scan modes are available: single zone scan, multiple zone scan and list zone scan. Achievable functions include add/delete scan channels, temporarily close priority channel, temporarily delete nuisance channel, and operator selectable priority channel.

FRONT PANEL PROGRAMMING

The feature enables easy access to customize each radio to fit user needs, and customize parameter setting and function key assignment.

INTELLIGENT OUTPUT POWER SWITCH

To prevent radio over-heating by long time transmission with high output power, TM-800 series can automatically switch to low output power to assure prolonged operation life.

UST FUNCTION

Different CTCSS/CDCSS selectable via programmed key, all stored UST code can be programmed with customized name, for convenient operation.

DTMF FUNCTION

DTMF ANI, manual dial, redial, quick access dial, and auto-dial; maximum 32 DTMF encode can be stored and programmed with customized name.

BUILT-IN MODEM

The built-in 1200/2400bps MSK modulator offers data transmission function.

EMERGENCY SIREN

TM-800 series assure you improved security under critical emergency condition, by transmitting an emergency signal to control center or a specific team member.

Other Features

PC PROGRAMMING

DUAL HOME CHANNELS

WIRED CLONE/MSK WIRELESS CLONE

RADIO PASSWORD & DATA PASSWORD

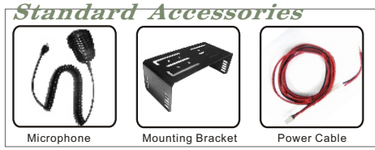
IGNITION SENSE POWER OFF

AUTO TRANSPOND

TOT (TIME-OUT TIMER)

Accessories

Standard Accessories



Optional Accessories